

D 6/14/93

3 5/17/96

D HIS

(FILE 'USPAT' ENTERED AT 14:27:06 ON 23 JAN 1998)
L1 3691 S 707/CLAS
L2 1226 S L1 AND LINK#
L3 392 S L2 AND NODE
L4 241 S L3 AND DISPLAY
L5 29 S L4 AND CLUSTER
L6 14 S L5 AND ANALYZ?

=> D 1-14

1. 5,659,766, Aug. 19, 1997, Method and apparatus for inferring the topical content of a document based upon its lexical content without supervision; Eric Saund, et al., 704/9; 707/500 :IMAGE AVAILABLE:

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5,649,193, Jul. 15, 1997, Document detection system using detection result presentation for facilitating user's comprehension; Kazuo Sumita, et al., 707/103: IMAGE AVAILABLE:

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- 3. 5,586,314, Dec. 17, 1996, Graphic information modeling and icon-based intermediate text language generation; Thomas L. Hill, et al., 707/4; 364/280.4, 282.1, 286, DIG.1:IMAGE AVAILABLE:
- 4.) 5,546,517, Aug. 13, 1996, Apparatus for determining the structure of a hypermedia document using graph partitioning; Joseph W. Marks, et al., 707/501; 345/357; 364/282.2, DIG.1: IMAGE AVAILABLE:

0 965

5.) 5,495,605, Feb. 27, 1996, Method to help in optimizing a query from a relational data base management system, and resultant method of syntactical analysis; Michel Cadot, 707/4; 345/356; 364/280.5, 282.1, 286.3, DIG.1 :IMAGE AVAILABLE:

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- 6. 5,490,246, Feb. 6, 1996, Image generator using a graphical flow diagram with automatic generation of output windows; Daniel C. Brotsky, et al., 345/342; 707/500 :IMAGE AVAILABLE:
- 7. 5,418,888, May 23, 1995, System for revelance criteria management of actions and values in a rete network; John L. Alden, 395/64; 364/274, 274.2, DIG.1; 395/50, 52, 63; 707/1 :IMAGE AVAILABLE:
- 8. 5,386,558, Jan. 31, 1995, Method and apparatus for executing control system functions in a computer system; Craig L. Maudlin, et al., 707/104; 364/274.2, 275.2, DIG.1; 395/10, 50, 904 :IMAGE AVAILABLE:
- 9. 5,386,556, Jan. 31, 1995, Natural language analyzing apparatus and method; Erik B. Hedin, et al., 707/4; 364/274.8, 285.4, DIG.1; 395/12, 934 :IMAGE AVAILABLE:
- 10. 5,301,350, Apr. 5, 1994, Real time storage/retrieval subsystem for document processing in banking operations; James D. Rogan, et al., 705/33; 364/225, 225.2, 225.3, 225.4, DIG.1; 707/104 :IMAGE AVAILABLE:
- 11. 5,287,453, Feb. 15, 1994, Fast remote file access facility for distributing file access requests in a closely coupled computer system; William F. Roberts, 395/200.31; 364/222.82, 228.3, 228.7, 228.8, 228.9, 229, 230, 230.4, 236.2, 237.2, 237.3, 238.3, 240, 240.1, 240.8, 241.9, 242.94, 242.96, 244, 244.3, 246.8, 248.1, 258, 258.1, 260, 260.1, 260.4,



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L4
            241 S L3 AND DISPLAY
             29 S L4 AND CLUSTER
L5
             14 S L5 AND ANALYZ?
L6
             801 S L1 AND ANALYZ?
L7
            153 S L7 AND GRAPH#
^{18}
             82 S L2 AND L8
L9
L10
              40 S L3 AND L8
L11
             33 S L4 AND L8
L12
              8 S L5 AND L8
             25 S L11 NOT (L12 OR L6)
L13
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## => D 1-25

- 1. 5,669,007, Sep. 16, 1997, Method and system for analyzing the logical structure of a document; Yuka Tateishi, 707/517, 513:IMAGE AVAILABLE:
- 2. 5,644,686, Jul. 1, 1997, Expert system and method employing hierarchical knowledge base, and interactive multimedia/hypermedia applications; Amir Hekmatpour, 395/50, 62, 77; 707/501:IMAGE AVAILABLE:
- 3.) 5,630,120, May 13, 1997, Method to help in optimizing a query from a relational data base management system; Eric Vachey, 707/2; 345/340, 348, 356; 364/280.5, 282.1, 286.3, DIG.1 :IMAGE AVAILABLE:
- 4. 5,625,814, Apr. 29, 1997, Method and apparatus for processing natural language with a hierarchy of mapping routines; William W. Luciw, 707/5; 364/282.1, DIG.1 :IMAGE AVAILABLE:
- 5. 5,608,907, Mar. 4, 1997, Extensible entity management system including an information manager for obtaining, storing and retrieving information from entities; Leonard G. Fehskens, et al., 395/672; 364/229.5, 242.94, 282.1, 284.1, 286, DIG.1; 707/1:IMAGE AVAILABLE:
- 6. 5,608,624, Mar. 4, 1997, Method and apparatus for processing natural language; William W. Luciw, **707/532**; 395/10, 12, 51, 54, 60, 62; 704/9: IMAGE AVAILABLE:
- 7. 5,603,021, Feb. 11, 1997, Methods for composing formulas in an electronic spreadsheet system; Percy L. Spencer, et al., 707/4; 345/326 :IMAGE AVAILABLE:
- 5,586,311, Dec. 17, 1996, Object oriented data access and analysis system; Kathleen M. Davies, et al., 707/1; 345/326; 364/974.6, DIG.2: IMAGE AVAILABLE:
- 9. 5,555,408, Sep. 10, 1996, Knowledge based information retrieval system; Hiromichi Fujisawa, et al., 707/5: IMAGE AVAILABLE:
- 10. 5,550,971, Aug. 27, 1996, Method and system for generating a user interface adaptable to various database management systems; Hans Brunner, et al., 707/3; 345/356: IMAGE AVAILABLE:

- 11. 5,537,590, Jul. 1996, Apparatus for applying alysis rules to data sets in a relational database to generate a database of diagnostic records linked to the data sets; Armando Amado, 707/2; 364/225, 274.2, 283.4, 286.3, DIG.1; 395/50, 51, 52 :IMAGE AVAILABLE:
- 12. 5,526,475, Jun. 11, 1996, Method for live symbolic calculations in a mathematical document editor; Allen M. Razdow, 707/538; 364/732, 733, 736.01 :IMAGE AVAILABLE:
- 13. 5,523,942, Jun. 4, 1996, Design grid for inputting insurance and investment product information in a computer system; Max C. Tyler, et al., 705/4; 707/507: IMAGE AVAILABLE:
- 14. 5,475,838, Dec. 12, 1995, Extensible entity management system including rule-based alarms; Leonard G. Fehskens, et al., 395/185.1; 364/229, 232.7, 242.95, 284.4, 285, DIG.1; 395/54, 200.53; 707/200: IMAGE AVAILABLE:
- (15.) 5,471,611, Nov. 28, 1995, Computerised information-retrieval database systems; Douglas R. McGregor, **707/4**; 395/51 :IMAGE AVAILABLE:

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- 16. 5,469,538, Nov. 21, 1995, Mathematical document editor and method performing live symbolic calculations for use with an electronic book; Allen M. Razdow, 345/440; 707/501: IMAGE AVAILABLE:
- 17. 5,440,481, Aug. 8, 1995, System and method for database tomography; Ronald N. Kostoff, et al., 707/5 :IMAGE AVAILABLE:
- 18. 5,404,506, Apr. 4, 1995, Knowledge based information retrieval system; Hiromichi Fujisawa, et al., **707/4**; 364/963, 974.6, 975, DIG.2; 395/12 :IMAGE AVAILABLE:
- 19. 5,341,469, Aug. 23, 1994, Structured text system; Wayne Rossberg, et al., 707/514: IMAGE AVAILABLE:
- 20. 5,303,367, Apr. 12, 1994, Computer driven systems and methods for managing data which use two generic data elements and a single ordered file; Richard B. Leenstra, Sr., et al., 707/102; 364/222.81, 282.1, 283.1, DIG.1:IMAGE AVAILABLE:
- 21. 5,287,493, Feb. 15, 1994, Database interactive prompted query system having named database tables linked together by a user through join statements; Thomas W. Jacopi, 707/4; 364/251.5, 251.6, 254.6, 282.1, 282.3, 283.1, 283.3, 283.4, DIG.1 :IMAGE AVAILABLE:
- 22. 5,283,894, Feb. 1, 1994, Lockless concurrent B-tree index meta access method for cached nodes; Roger L. Deran, **707/1**; 364/222.81, 222.82, 237.2, 240.8, 242.3, 242.94, 242.95, 243.4, 243.41, 251, 251.6, 252, 255.1, 255.3, 270.5, 282.1, 282.4, 283.3, 283.4, DIG.1 :IMAGE AVAILABLE:
- 23. 5,202,985, Apr. 13, 1993, Apparatus and method for displaying data communication network configuration after searching the network; Praduemn K. Goyal, 707/4; 364/242.94, 242.96, 282.1, 283.4, 927.2, 927.94, 927.95, 929, 940, 940.61, 940.64, 940.8, 942.06, 943.9, 962, 963, 974, 974.1, 974.2, 974.4, 974.5, 974.6, DIG.1, DIG.2; 395/200.54 :IMAGE AVAILABLE:
- 24. 5,010,478, Apr. 23, 1991, Entity-attribute value database system with inverse attribute for selectively relating two different entities; Roger L. Deran, **707/100**; 364/222.81, 222.82, 236.8, 237.2, 237.5, 243, 243.41, 246, 246.4, 251, 251.6, 252.3, 252.4, 253, 253.1, 253.2, 274, 274.1, 274.8, 280, 280.7, 281, 281.3, 281.6, 282.1, 283.1, 283.3,

25. 4,558,413, Dec. 17, 1985, Software version management system; Eric E. Schmidt, et al., 707/203; 364/221, 221.2, 222.81, 222.82, 228.3, 229, 229.2, 236.2, 242.94, 242.95, 243, 243.4, 243.41, 248.1, 262.4, 274.1, 275.1, 276.1, 280, 280.4, 280.6, 280.7, 282.1, 286, 973, DIG.1; 395/705, 712 :IMAGE AVAILABLE:

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- 2. 5,546,517, Aug. 13, 1996, Apparatus for determining the structure of a hypermedia document using **graph** partitioning; Joseph W. Marks, et al., **707/501**; 345/357; 364/282.2, DIG.1 :IMAGE AVAILABLE:
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- 4. 5,490,246, Feb. 6, 1996, Image generator using a graphical flow diagram with automatic generation of output windows; Daniel C. Brotsky, et al., 345/342; 707/500 :IMAGE AVAILABLE:
- 5. 5,386,558, Jan. 31, 1995, Method and apparatus for executing control system functions in a computer system; Craig L. Maudlin, et al., 707/104; 364/274.2, 275.2, DIG.1; 395/10, 50, 904 :IMAGE AVAILABLE:
- 6. 5,301,350, Apr. 5, 1994, Real time storage/retrieval subsystem for document processing in banking operations; James D. Rogan, et al., 705/33; 364/225, 225.2, 225.3, 225.4, DIG.1; 707/104 :IMAGE AVAILABLE:
- 7. 5,170,466, Dec. 8, 1992, Storage/retrieval system for document; James D. Rogan, et al., 707/530 :IMAGE AVAILABLE:
- 8. 4,868,733, Sep. 19, 1989, Document filing system with knowledge-base network of concept interconnected by generic, subsumption, and superclass relations; Hiromichi Fujisawa, et al., 707/5; 364/274, 274.1, 274.2,

- 264, 271, 280, 281.3, 281.5, 282.1, 284, 284.3, 284.4, DIG.1; 395/200.82; 707/200 :IMAGE AVAILABE:
- 12. 5,170,466, Dec. 8, 1992, Storage/retrieval system for document; James D. Rogan, et al., 707/530 :IMAGE AVAILABLE:
- 13. 4,989,132, Jan. 29, 1991, Object-oriented, logic, and database programming tool with garbage collection; Fredric H. Mellender, et al., 395/705; 364/274, 274.1, 280, 280.4, 281.1, 282.1, DIG.1; 395/76, 704; 707/103 :IMAGE AVAILABLE:
- 14.) 4,868,733, Sep. 19, 1989, Document filing system with knowledge-base network of concept interconnected by generic, subsumption, and superclass relations; Hiromichi Fujisawa, et al., 707/5; 364/274, 274.1, 274.2, 274.3, 282.1, 283.1, DIG.1; 395/1, 62:IMAGE AVAILABLE:

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